

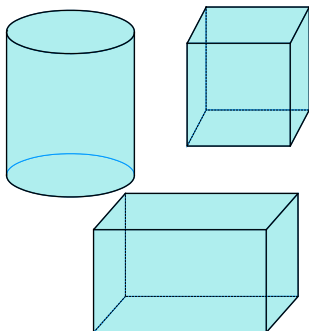
Review for Chapters 12 and 13

Prisms and Cylinders

$$LA = ph$$

$$TA = LA + 2B$$

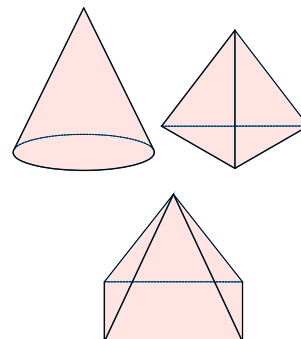
$$V = Bh$$

Pyramids and Cones

$$LA = \frac{1}{2}pl$$

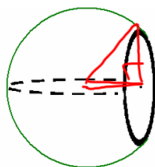
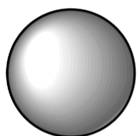
$$TA = LA + B$$

$$V = \frac{1}{3}Bh$$

Spheres

$$A = 4\pi r^2$$

$$V = \frac{4}{3}\pi r^3$$



Great Circle and Hemispheres

Similar Solids

Scale Factor

a:b

Ratio of Areas

$$a^2:b^2$$

Ratio of Volumes

$$a^3:b^3$$

The volume of a square prism is 432cm

³.

The height is 2 x side of the square.

$$h = 2s$$

What is the length of a side?

$$\begin{aligned} V &= Bh \\ 432 &= s^2 \cdot 2s \\ 432 &= 2s^3 \\ 216 &= s^3 \\ 6 &= s \end{aligned}$$